

RELATIVE AMPLITUDE AND PHASE DISPLAY WITH SAMPLE LOGGING
ABSTRACT OF THE DISCLOSURE

An audio test device and method provide a visual display of audio parameters for plural audio channels. One audio channel at least temporarily is deemed a reference channel and other channels become relative channel for comparison. Samples from the reference and relative channels produce relative amplitude and relative phase difference values that are plotted on the display. The difference values for pairs of relative channel and reference channel data samples can be plotted as pixels in pie shaped plot segments or other two dimensional plots, one for each relative channel. The relative amplitude and phase differences are presented as positions of pixels along the axes of the plot. This arrangement is particularly useful in showing the current amplitude and phase condition of a multi-channel audio signal. In addition, the amplitude and relative phase data for the channels can be logged over a long time period (a day or more) to show the amplitude and phase conditions as changing over time.